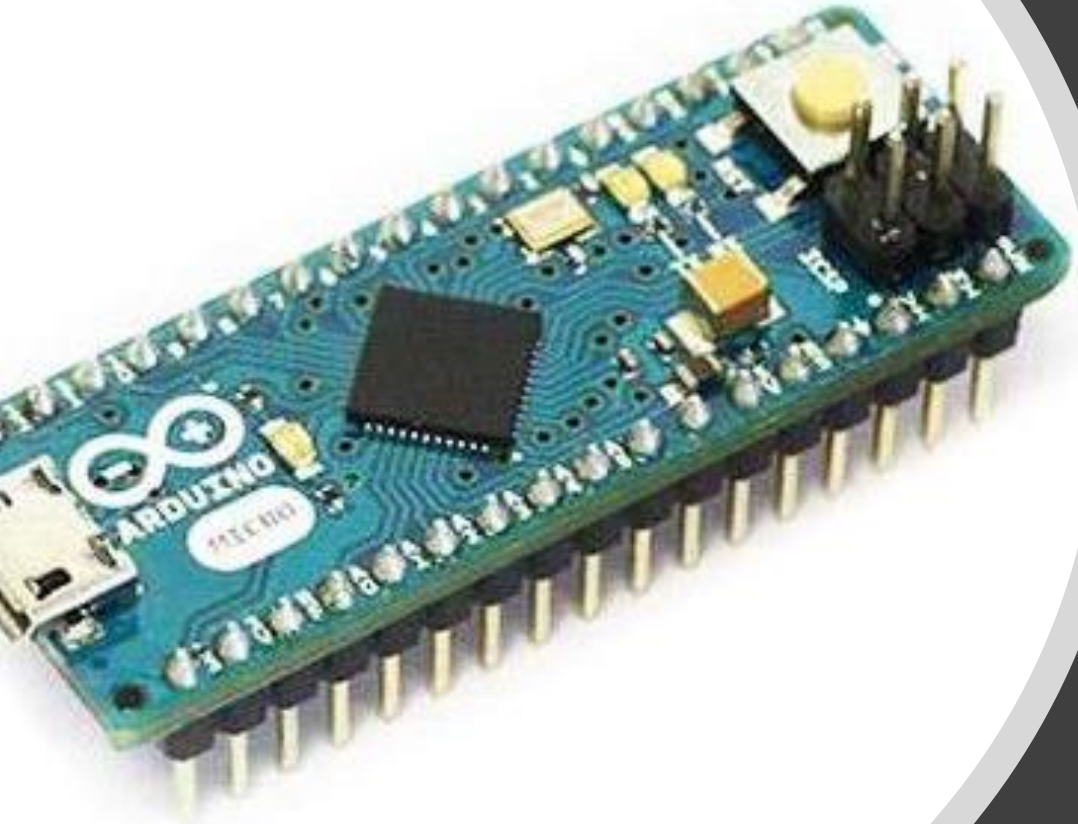




GÖMÜLÜ SİSTEMLER -2

GÖMÜLÜ SİSTEM ÖRNEKLERİ



GÖMÜLÜ SİSTEM
GELİŞTİRME KİTLERİ



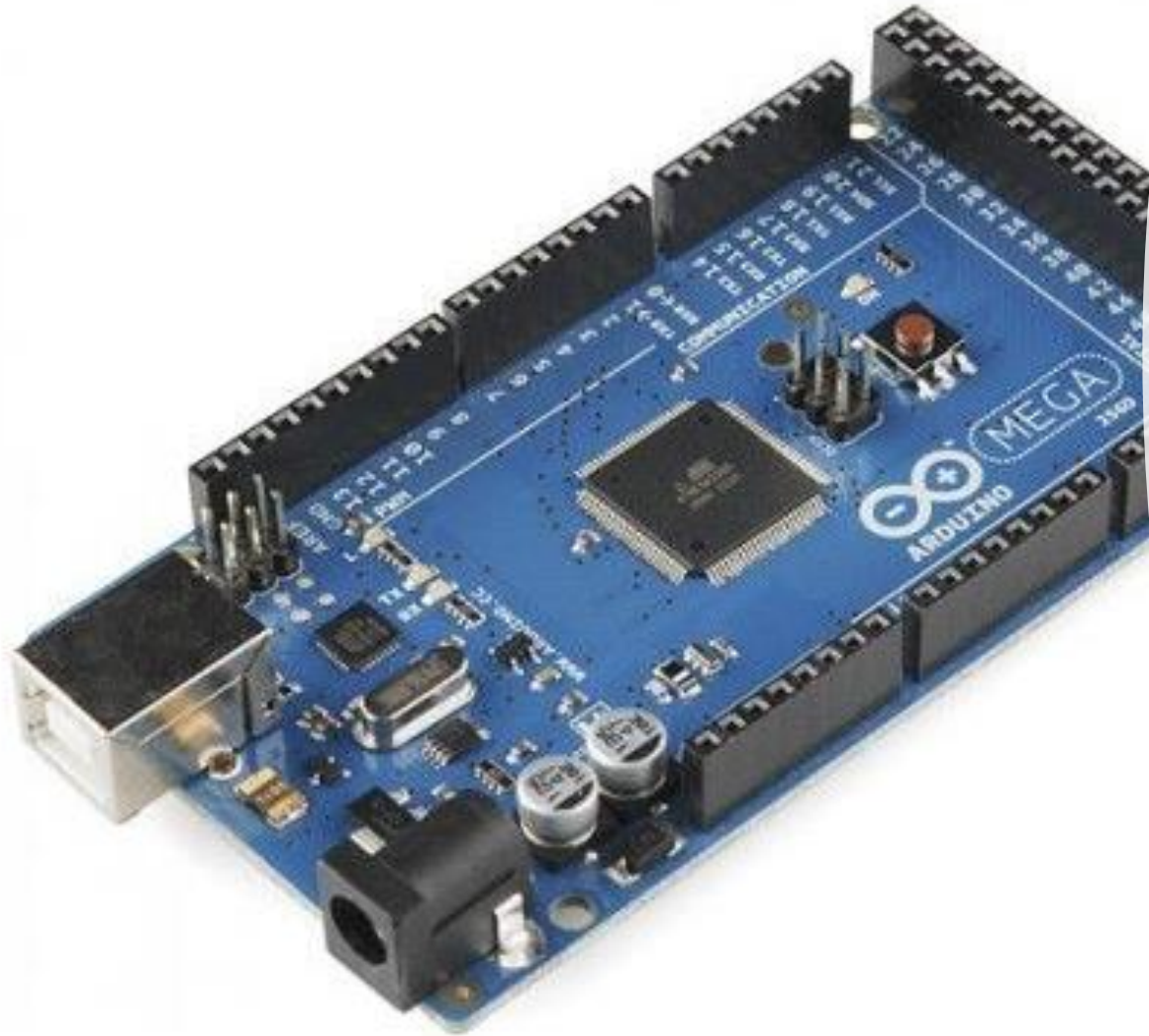
ARDUINO - MICRO

Microcontroller	ATmega32U4
Operating Voltage	5V
Input Voltage	7-12V
Digital I/O Pins	20
PWM Channels	7
Analog Input Channels	12
DC Current per I/O Pin	20 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	32 KB (ATmega32U4) of which 4 KB used by bootloader
SRAM	2.5 KB (ATmega32U4)
EEPROM	1 KB (ATmega32U4)
Clock Speed	16 MHz
LED_BUILTIN	13
Length	48 mm
Width	18 mm
Weight	13 g



ARDUINO - UNO

- Microcontroller ATmega328P
- Operating Voltage 5V
- Input Voltage (recommended) 7-12V
- Input Voltage (limit) 6-20V
- Digital I/O Pins 14 (of which 6 provide PWM output)
- PWM Digital I/O Pins 6
- Analog Input Pins 6
- DC Current per I/O Pin 20 mA
- DC Current for 3.3V Pin 50 mA
- Flash Memory 32 KB (ATmega328P) of which 0.5 KB used by bootloader
- SRAM 2 KB (ATmega328P)
- EEPROM 1 KB (ATmega328P)
- Clock Speed 16 MHz
- LED_BUILTIN 13
- Length 68.6 mm
- Width 53.4 mm
- Weight 25 g



ARDUINO - MEGA

- Operating Voltage 5V
- Input Voltage (recommended) 7-12V
- Input Voltage (limit) 6-20V
- Digital I/O Pins 54 (of which 15 provide PWM output)
- Analog Input Pins 16
- DC Current per I/O Pin 20 mA
- DC Current for 3.3V Pin 50 mA
- Flash Memory 256 KB of which 8 KB used by bootloader
- SRAM 8 KB
- EEPROM 4 KB
- Clock Speed 16 MHz
- LED_BUILTIN 13
- Length 101.52 mm
- Width 53.3 mm
- Weight 37 g



ARDUINO - LEONARDO

- Microcontroller ATmega32u4
- Operating Voltage 5V
- Input Voltage (Recommended) 7-12V
- Input Voltage (limits) 6-20V
- Digital I/O Pins 20
- PWM Channels 7
- Analog Input Channels 12
- DC Current per I/O Pin 40 mA
- DC Current for 3.3V Pin 50 mA
- Flash Memory 32 KB (ATmega32u4) of which 4 KB used by bootloader
- SRAM 2.5 KB (ATmega32u4)
- EEPROM 1 KB (ATmega32u4)
- Clock Speed 16 MHz
- Length 68.6 mm
- Width 53.3 mm
- Weight 20 g

GÖMÜLÜ SİSTEM ÖRNEKLERİ

- <https://www.youtube.com/watch?v=cDe8J1tKQLA>
- <https://www.youtube.com/watch?v=T5Aq7cRc-mU>
- <https://www.youtube.com/watch?v=gIIYcZv9R9w>
- <https://www.youtube.com/watch?v=5492ZjivAQ0>
- <https://www.youtube.com/watch?v=zE5PGeh2K9k>
- <https://www.youtube.com/watch?v=58yeaYwXr7c>
- <https://www.youtube.com/watch?v=TMZs5zPzXVQ>

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- <https://www.youtube.com/watch?v=PiEK-b49mbs>
- <https://www.youtube.com/watch?v=uUxbehXSiJA>
- <https://www.youtube.com/watch?v=iwIESqvRZmw>
- <https://www.youtube.com/watch?v=iwIESqvRZmw>
- <https://www.youtube.com/watch?v=ysXYCxyRvkY>
- <https://www.youtube.com/watch?v=7Qyawcw-ots>
- <https://www.youtube.com/watch?v=EAZ6xew-XDA>

GÖMÜLÜ SİSTEM ÖRNEKLERİ

- <https://www.youtube.com/watch?v=0Pq4oGwMxEE>
- <https://www.youtube.com/watch?v=GfXQTR0wmBM>
- <https://www.youtube.com/watch?v=eFYuEPiz2rk>

KAYNAKLAR
